MODELS

Compaq Lucent V.90 56-K PCI Win Modem

239137-xxx

OVERVIEW

The Compaq Lucent V.90 56-K PCI Win Modem is the universally compatible and interoperable high-speed connection solution for customers who require high-speed data connections over standard telephone lines. By enabling faster downstream speeds from the ISP to the user, V.90 technology significantly speeds information delivery. Download drains such as graphics-intensive web pages, audio and video, and large files will download nearly as fast as ISDN connections and at almost twice the rate of the standard 28.8-K modem.

Performance

The V.90 technology of the Lucent V.90 56-K PCI Win Modem is compatible with previous communication standards like ITU V.34, which means that whenever high-speed communication is not possible, the connection can be established via V.34. Users can upgrade to the new standard and connect with any ISP that is also standard compliant. Additionally, the backward compatibility of the V.90 modem allows users who do not upgrade to V.92 to connect at rates of up to 56 Kbps with K56flex™-based ISPs that have upgraded to the ITU standard.

Viewing the Public Switched Telephone Networks (PSTN) as mostly digital, the Lucent V.90 56-K PCI Win Modem delivers faster speeds by greatly reducing the quantization noise caused by corrupted or reconstructed analog/digital signals. The ultimate result is faster speed and overall enhanced performance.

Key Benefits

- Standard telephone line operation eliminates up-front and monthly costs for special lines
- Highest Internet connection rates over analog phone lines
- Downstream speeds of up to 56 Kbps
- V.92 hardware support
- Superior performance for videoconferencing and tele-gaming
- Backward compatible with V.34 modems
- RAM-based technology simplifies installation of future software upgrades
- Becomes Plug and Play compatible with external EEPROM

COMPATIBILITY

The Lucent V.90 56-K PCI Win Modem is compatible with Compaq *Deskpro*™ Series EX and EN systems.

SERVICE AND SUPPORT

The Lucent V.90 56-K PCI Win Modem has a one-year limited warranty or the remainder of the warranty of the Compaq product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Certain restrictions and exclusions apply.

SPECIFICATIONS

Data transmission	V.90/K56flex technology speeds: 56,000 Kbps maximum downstream data, controllerless Note: 56 Kbps technology refers to download speeds only and requires compatible modems at server sites. Other conditions may limit modem speed. FCC limitations allow a maximum of 53 Kbps during download transmissions.
Data speeds	(Upload only) 33,600 / 31,200 / 28,800 / 26,400 / 21,600 / 19,200 / 16,800 / 14,400 / 12,000 / 9,600 / 7,200 / 4,800 / 2,400 / 1,200 / 300
Data standards	ITU V.90, ITU-T, V.34bis, V.22bis, V.22bis, V.21, V.23, Bell 212A, and Bell 103
Fax speeds	14,400 / 12,000 / 9,600 / 7,200 / 4,800 / 2,400 / 1,200 / 300 b/s
Fax mode capabilities	Group3 FAX, V. 17, V.29, V.27ter, and V.21 Channel 2, Class 1
Error correction and data compression	V.44 (software upgradeable), 4.2bis, V.42 and MNP2-5

SPECIFICATIONS *(continued)*

Power management	APM and ACPI states D0, D1, D2, and D3; meets PCI 2.2 requirements and PC'99 requirements
Upgradeability	Software driver upgradeable for v.92 and future enhancements
Video	ITU-T V.80 video ready interface
Other	TIA/EIA 602 standard AT command set Integrated DTE interface with speeds of up to 115.2 Kbps, parallel 16550a UART-compatible interface Optional ring wakeup signal
Operating temperature	32º to 158º F (0º to 70º C)
Operating humidity	20% to 90%, non-condensing
Operating system support	Microsoft® Windows® 95 and 98, Microsoft Windows 98 SE, Microsoft Windows 2000, Microsoft Windows Me, Microsoft Windows NT 4.0, Microsoft Windows XP
OS driver support	Microsoft Windows 95 and98, Microsoft Windows 98 SE , Microsoft Windows 2000, Microsoft Windows Me, Microsoft Windows NT 4.0, Microsoft Windows XP, Linux
Power	Requires a 3.3-V auxiliary power rail on PCI bus Uses only one PCI load (i.e., one grant/request pair), one shared IRQ, one electrical load
Chipset	Agere Systems 1648C (Mars 3.2)—Integrated PCI interface with 5-V tolerant buffers and CardBus support
Dimensions (L X H)	Complies with PCI low profile specifications—6.7 x 2.3 inches (17.0 x 5.8 cm) and supports high- and low-profile brackets
Connection	Dual, parallel RJ-11 support with auxiliary Tip/Ring connector
Other features	Digital line protection, call progress monitoring via on-board piezo device, transformer-based DAA design, support for high profile and low profile brackets, PnP ID supports via external EEPROM
Safety	UL recognized to UL 1950, 3rd edition (U.S. and Canada); IEC 950 (TUV, NEMKO, DEMKO, SEMKO); CE Mark, EC 950 (TUV, NEMKO, DEMKO, SEMKO, CE mark
EMC	FCC Part 15, IC ES003, EN 55022, 3rd edition, EN 55024, annex A, EN 61000-4-6, EN 61000-4-8
Telecom	FCC Part 68, IC-CS-03 (Canada); Worldwide PTT approvals
Health	Bare PCB material compliant to 94V-0 or better (marked as such), Microsoft Windows Me health compliant
Other	PC'99 compliant, PCI version 2.2, WHQL approved; support for ACPI revision 1.1,
Kit contents	Lucent V.90 56-K PCI Win Modem, brackets/screws, Compaq installation guide

Compaq PCs use genuine Microsoft® Windows®

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